Partners

- 1. Det Norske Oljeselskap (DNO)
- 2. Gulf Keystone
- 3. Taga
- 4. Weatherford
- 5. MOL Kalegran
- 6. University of Zakho (UoZ)
- 7. Koya University
- 8. Koya Technical Institute (KTI)



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Zakho Technical Institute (ZTI)







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PETROLEUM DEPARTMENT

SOLUTIONS FOR REFINERY AND PETROLEUM **PRODUCT ANALYSIS** IN KURDISTAN REGION



ZAKHO TECHNICAL INSTITUTE DUHOK POLYTECHNIC UNIVERSITY



Zakho Technical Institute (ZTI)

At Duhok Polytechnic University (DPU) the Zakho Technical Institute (ZTI) was established in 2002 with 2 departments only (Banking Management and Computer Systems) and gradually expanded to include the following departments: Nursing, Medical Laboratory Technology, Refrigeration and Air-Conditioning, Accounting, Statistics, Petroleum, Surveying and Electrical Power. Along the past decade, the ZTI has prepared around 4000 technical professionals in these various fields who contributed to fulfill market needs.

The Petroleum Department (PD) has been established in 2009 with a goal of becoming a leading teaching and research institution in this field in Kurdistan region. PD currently is in a process of hiring experts from abroad to help in curriculum development and research direction. The PD's sponsor and affiliate is Det Norske Oljeselskap (DNO), which is contributing to modernize instructional laboratories. The Department has an Advisory Office to work closely with oil companies in the region.

Department Goal

Equip Diploma students with knowledge and technical skills that prepare them for employment by oil industries in Kurdistan Region to meet the needs of local market.

Department activities

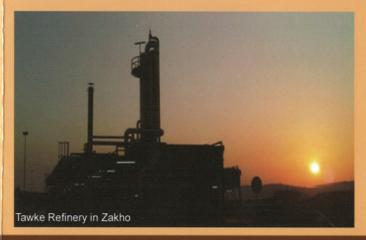
- 1. Cooperate with Foreign Oil Companies, currently existed in Kurdistan Region, for the following purposes:
- a. Everyday test of samples provided by producers, processors, shippers, refiners and marketers.

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- b. Annual or quarterly workshops for developing the skills of departmental staff.
- c. Summer training of year 2 students.
- d. Weekly and/or monthly excursion of students.
- 2. Encourage applied joint research with oil experts to solve related technical problems.
- 3. Exchange experience and information with related vocational schools in and out Kurdistan region.

Petroleum Analysis Laboratory

The Petroleum Department (PD) at Zakho Technical Institute (ZTI), Duhok Polytechnic University (DPU) provides reliable and comprehensive Petroleum Testing Services to support and improve the operations of oil and gas industry in Kurdistan Region. The purpose of this analysis is to identify the purity of petroleum crude oil in the oil field, quality monitoring, assay and simulated distillation. Moreover, our system treats client contracts with confidentiality and firm when and where it is needed. The Lab can supply sampling bottles and containers orrequest.



Zakho Technical Institute (ZTI)

List of Tests

Test Name / Description:	Method	Price (\$)	Min. Sample Vol.:
BS&W	ASTM D1796	30	100 ml
Cloud Point	ASTM D2500	50	50 ml
Copper Strip Corrosion	ASTM D130	40	30 ml
Density/ Specific Gravity/ API Gravity	ASTM D4052 & D5002	35	500ml/test Temp.
Cetane #	ASTM D6890	225	100 ml
Flashpoint, Cleveland Open Cup	ASTM D92	50	200 ml
Flashpoint, Pensky, Marten, Closed Cup	ASTM D93	45	200 ml
Conradson Carbon Residue - CCR	ASTM D189	50	100 ml
Natural Gas Analyses, Hydrocarbons to H ₂ , N ₂ , Co by GC	IN-HOUSE	150	gas sample Container
Physical Distillation	ASTM D86	200	500 ml
Pour Point	ASTM D 97	100	100 ml
Reid Vapour Pressure	ASTM D323	120	1L(Special Container)
Soxhlet Extraction	IN-HOUSE	145	250 gr
Sulfur Content RX (Liquid Only)	ASTM D7039	40	25 ml
Saybolt Viscosity - Universal & Furol Method	ASTM D88	50/Test Temp.	150 ml/Test Temp.
Smoke point	ASTM D1322	50	50 ml
Salt content	ASTM D3230	100	150 ml
Viscosity Kinematic (Per Temperature)	ASTM D445	50/Test Temp.	50 ml/Test Temp.
Water Content (Karl Fischer)	ASTM D6304	40	25 ml
PH (Water)	IN-HOUSE	10	50 ml
Penetration (Automatic)	ASTM D5 -250	70	250 gr
Ring and Ball	ASTM D36	70	100 gr
Aniline Point (U-Tube Method)	ASTM D611	120	150 ml
Ductility	ASTM D113	200	400 gr
Octane #	ASTM D2699-86	150	100 ml

